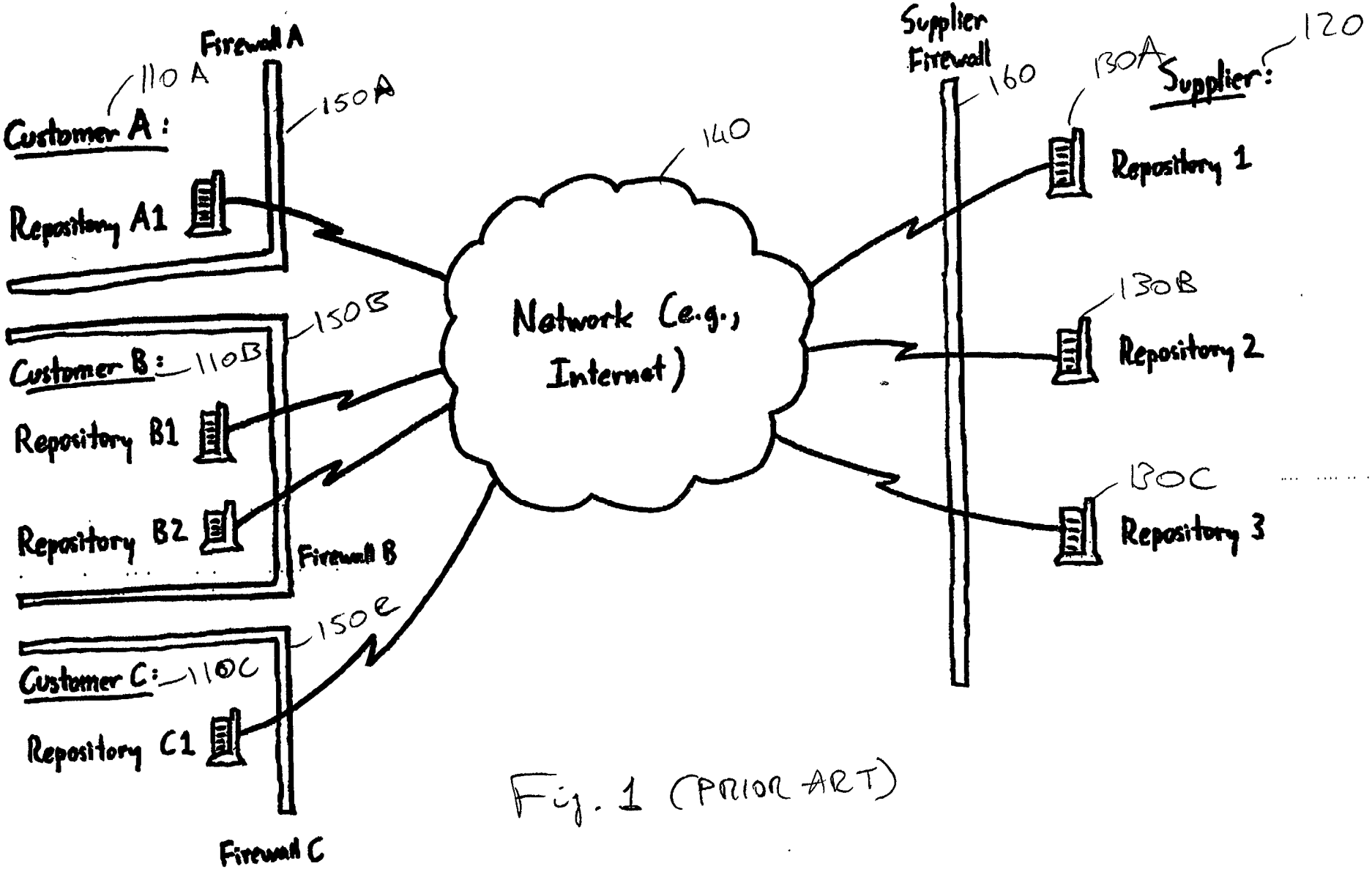

Fig. 1 (PRIOR ART)

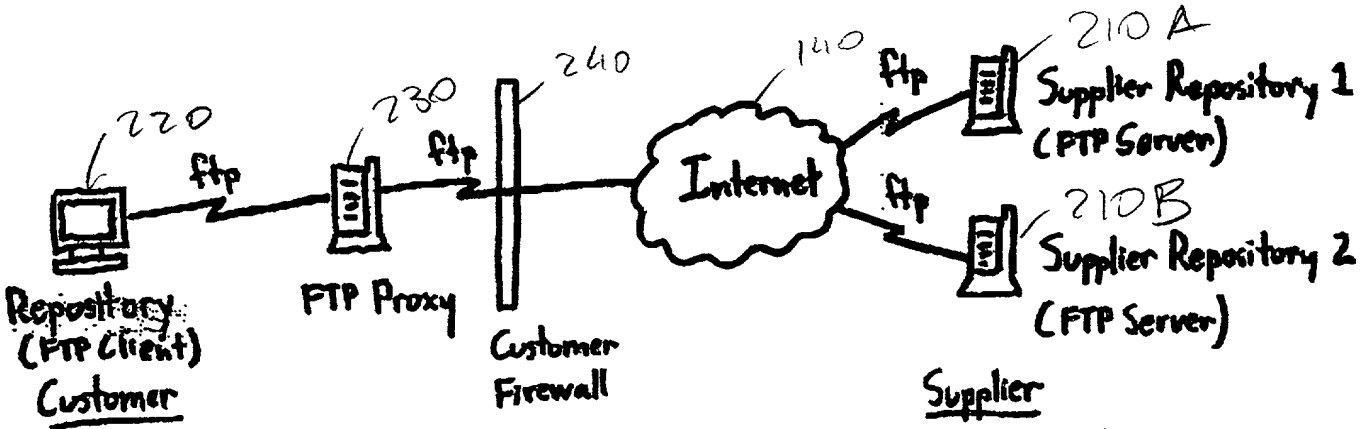

Fig. 2A (PRIOR ART)

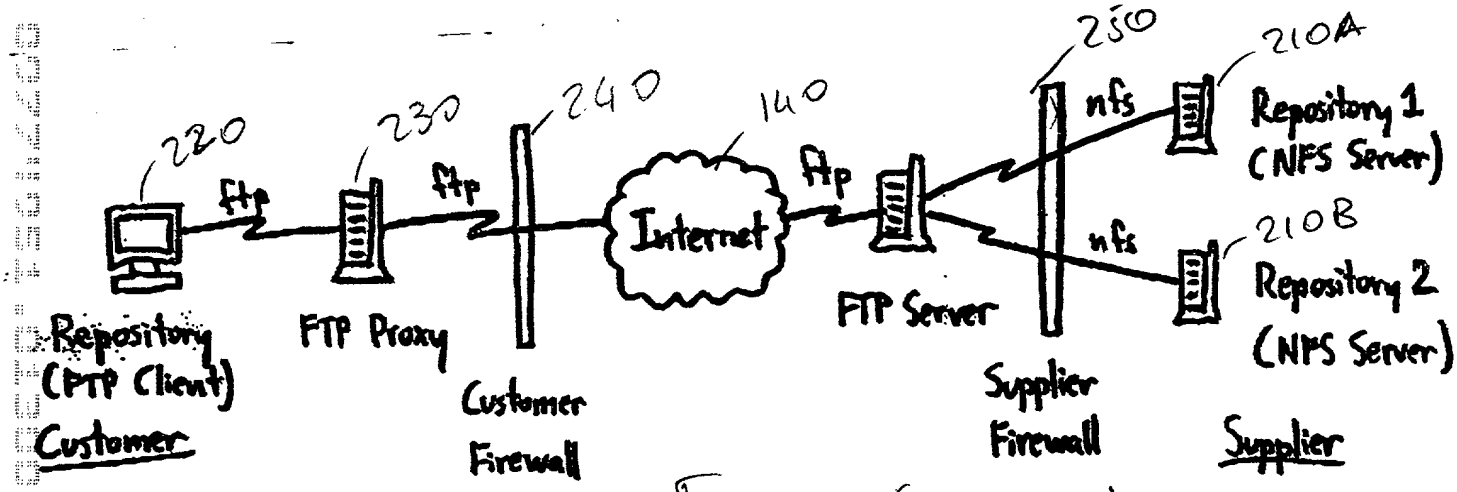

Fig. 2B (PRIOR ART)

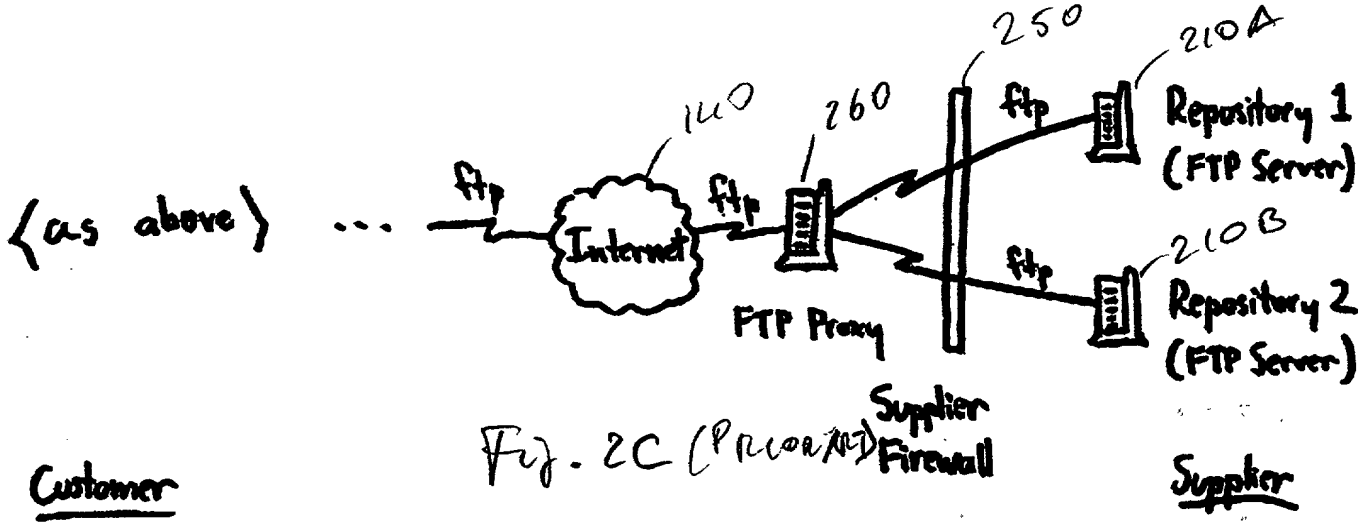

Fig. 2C (PRIOR ART)

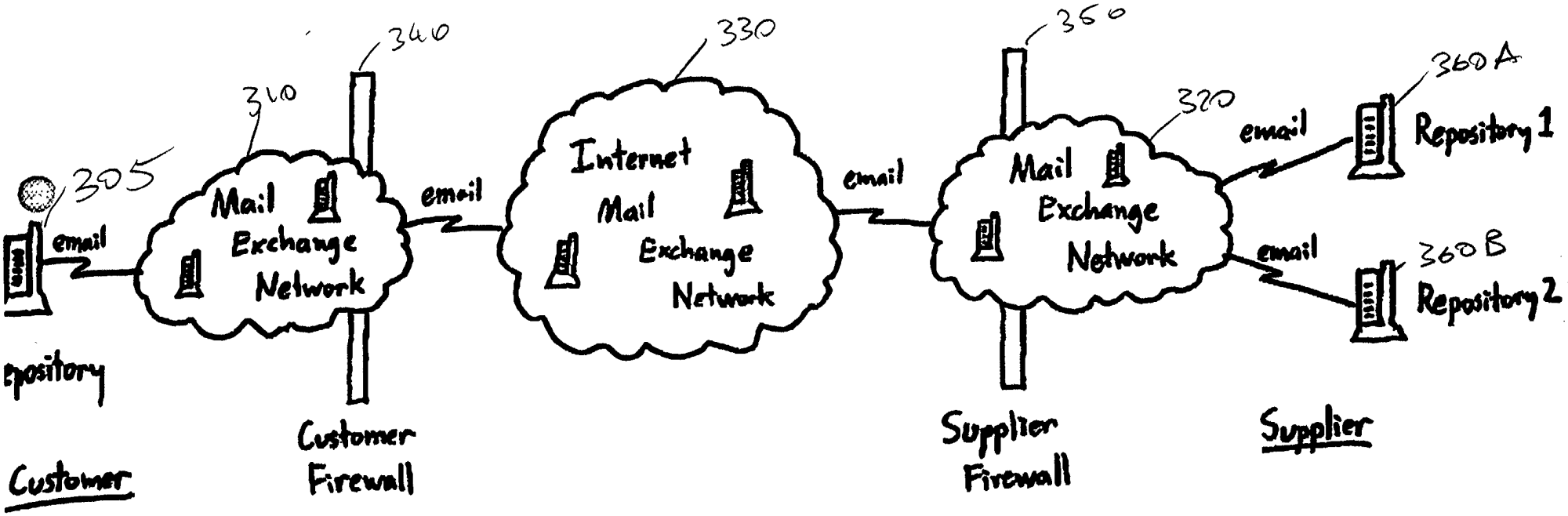

Fig. 3 (PRIOR ART)

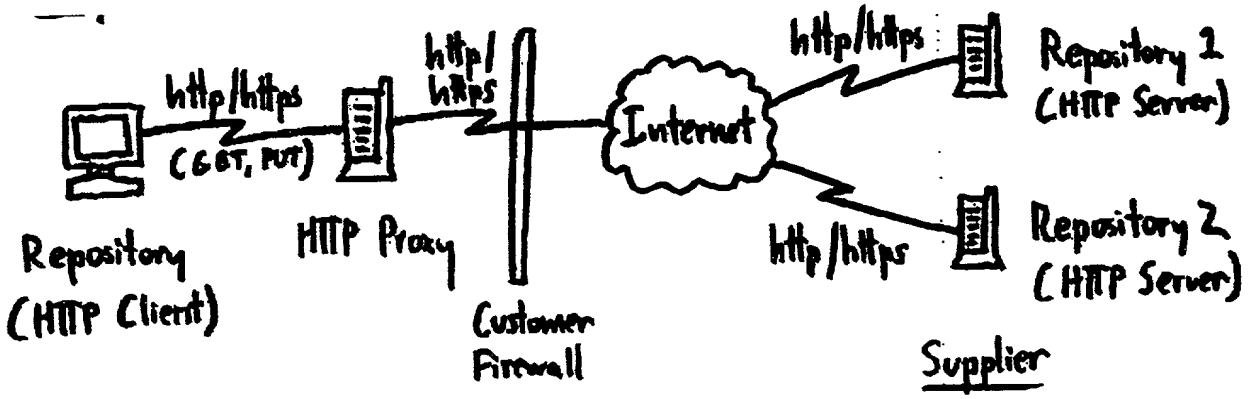

Fig. 4A (PRIOR ART)

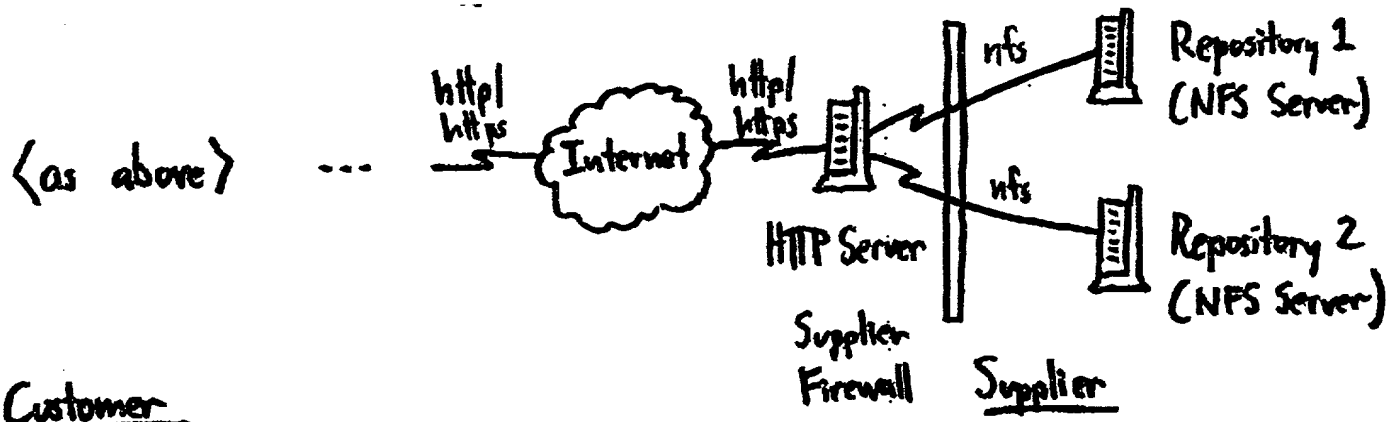

Fig. 4B (PRIOR ART)

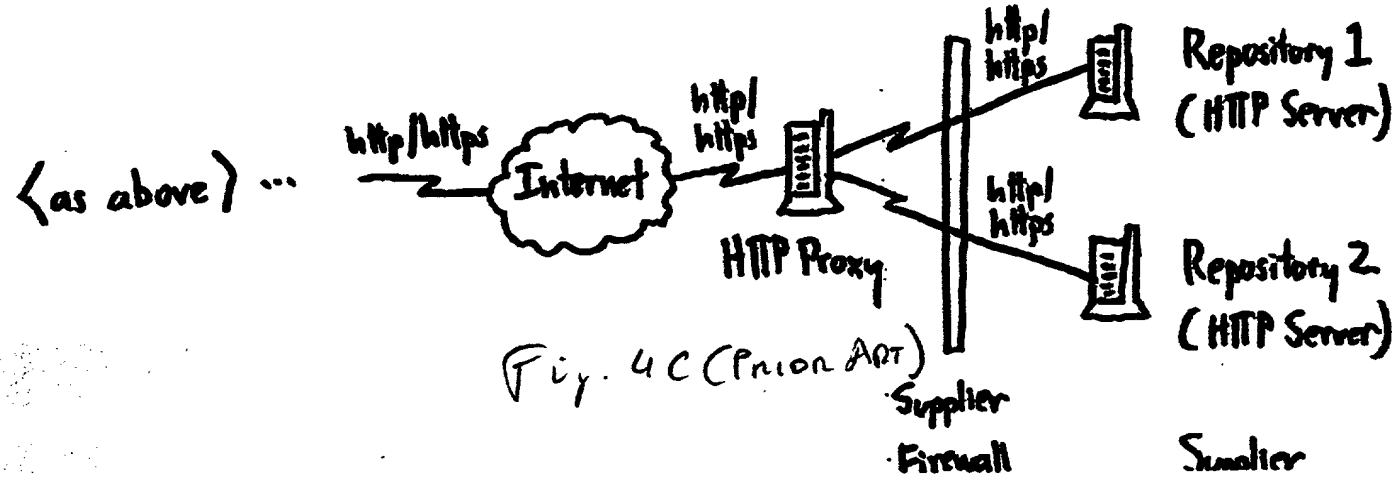

Fig. 4C (PRIOR ART)

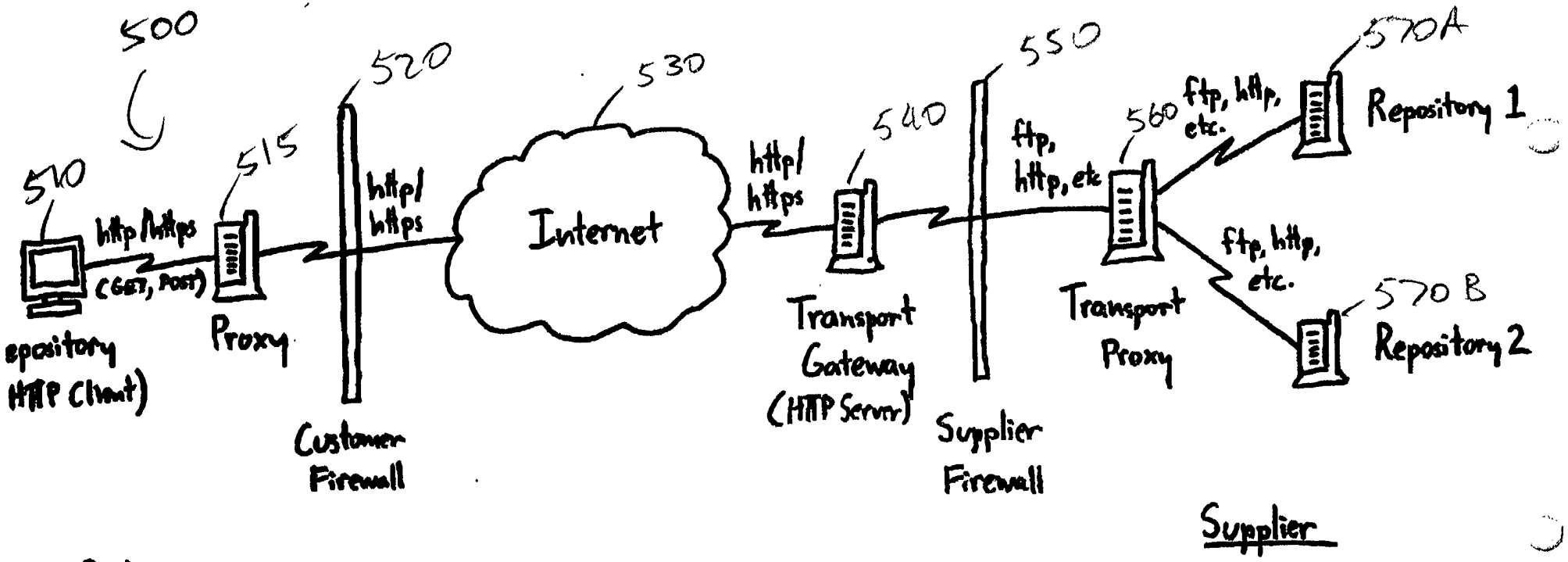
500
510
515
520
530
540
550
560
570A
570B
http/https
(GET, POST)
http/
https
Internet
http/
https
ftp,
http, etc
ftp, http,
etc.
ftp, http,
etc.
Repository 1
Repository 2
epository
HTTP Client)
Proxy
Customer
Firewall
Transport
Gateway
(HTTP Server)
Supplier
Firewall
Transport
Proxy
Customer
Supplier

Fig. 5A

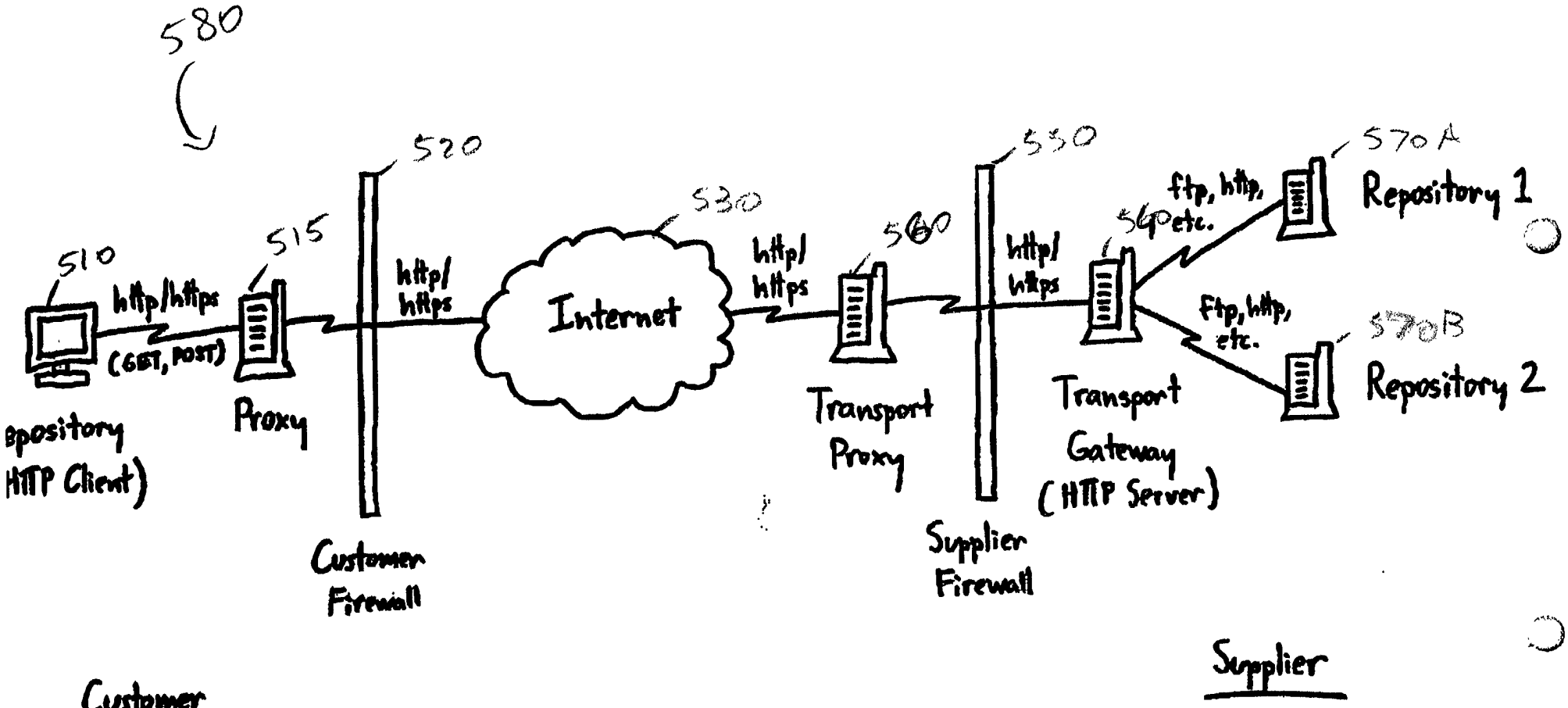
580
510
515
520
530
540
550
560
570A
570B
http/https
(GET, POST)
Internet
ftp, http, etc.
Repository 1
Repository 2
Proxy
Transport Proxy
Transport Gateway (HTTP Server)
Customer Firewall
Supplier Firewall
HTTP Client)
Customer
Supplier

Fig. 5B

GET ␣ /tran/bin/xaction.pl? HP-ESC-S-ID=349de55c1a39d2f6000 &

HP-ESC-S-AUTH = 2903654340 &

Geography = USA &

AppName = Asset &

Version = 1.X &

FileName = newswcfg.dat ␣ HTTP/1.0 CR LF

SWOP-Xaction: ␣ tranGet CR LF

CR LF

610, 620, 625, 635, 632, 637, 639, 641, 643, 630

Fig. 6A

HTTP/1.0 ␣ 200 ␣ OK CR LF

SWOP-Xaction: ␣ tranGet CR LF

SWOP-Version: ␣ 1.0.0 CR LF

SWOP-Data: ␣ Owner = scott &

Group = users &

Mode = 644 &

Timestamps: <T3> & Create = 979874581 & Modify = 979874820 &

Access = 979874820 CR LF

Content-Type: application/x-octet-stream CR LF

CR LF

Hello ␣ world

640, 642, 644, 645, 647, 649, 652, 646, 650

(Oops, forgot this)

SWOP-Status: ␣ 1 ␣ 0 ␣ OK CR LF

Fig. 6B

660 662

POST ␣ /tran/bin/xaction.pl ␣ HTTP/1.0 CR LF

SWOP-Xaction : ␣ tranPut CR LF — 664

672

SWOP-Data : ␣ HP-ESC-S-ID=349de55c1a39d2f600d&

HP-ESC-S-AUTH = 2903654344& — 674

676

Geography = USA& — 678

AppName = Asset& — 679

Version = 1.X& — 680

FileName = newswcfg.dat& — 682

Owner = scott& — 681

Group = users& — 683

Mode = 644 CR LF — 685

666

Content-Type: ␣ application/x-object-stream CR LF

Content-Length: ␣ 11 CR LF — 668

CR LF — 670

Hello ␣ world

Fig. 6C

688

HTTP/1.0 ␣ 200 ␣ OK CR LF

SWOP-Xaction: ␣ tranPut CR LF

SWOP-Version: ␣ 1.0.0 CR LF — 690

SWOP-Status: ␣ 1 ␣ 0 ␣ OK CR LF

Fig. 6D

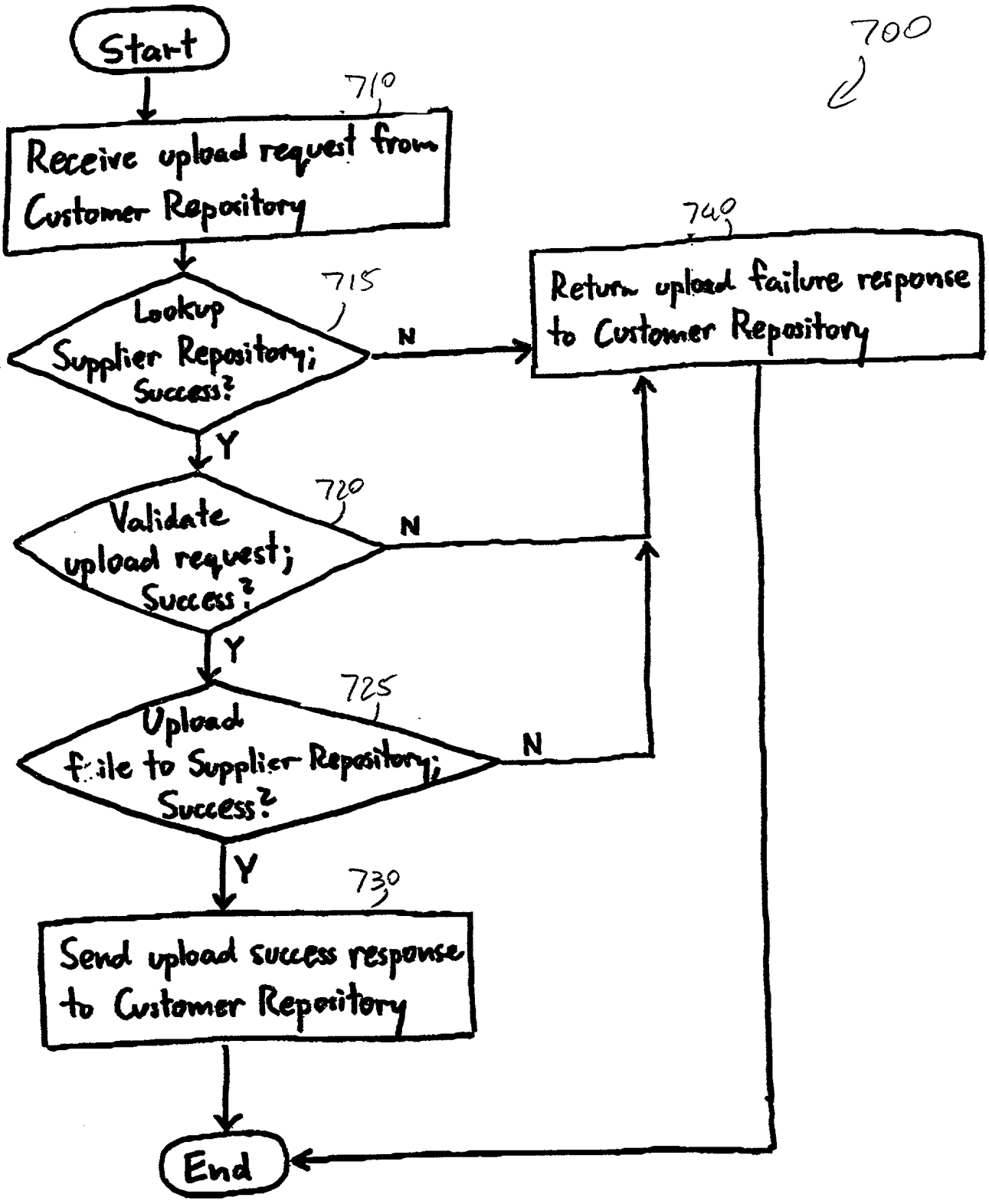
Start
700
710
Receive upload request from Customer Repository
715
Lookup Supplier Repository; Success?
N
740
Return upload failure response to Customer Repository
Y
720
Validate upload request; Success?
N
Y
725
Upload file to Supplier Repository; Success?
N
Y
730
Send upload success response to Customer Repository
End

Fig. 7A

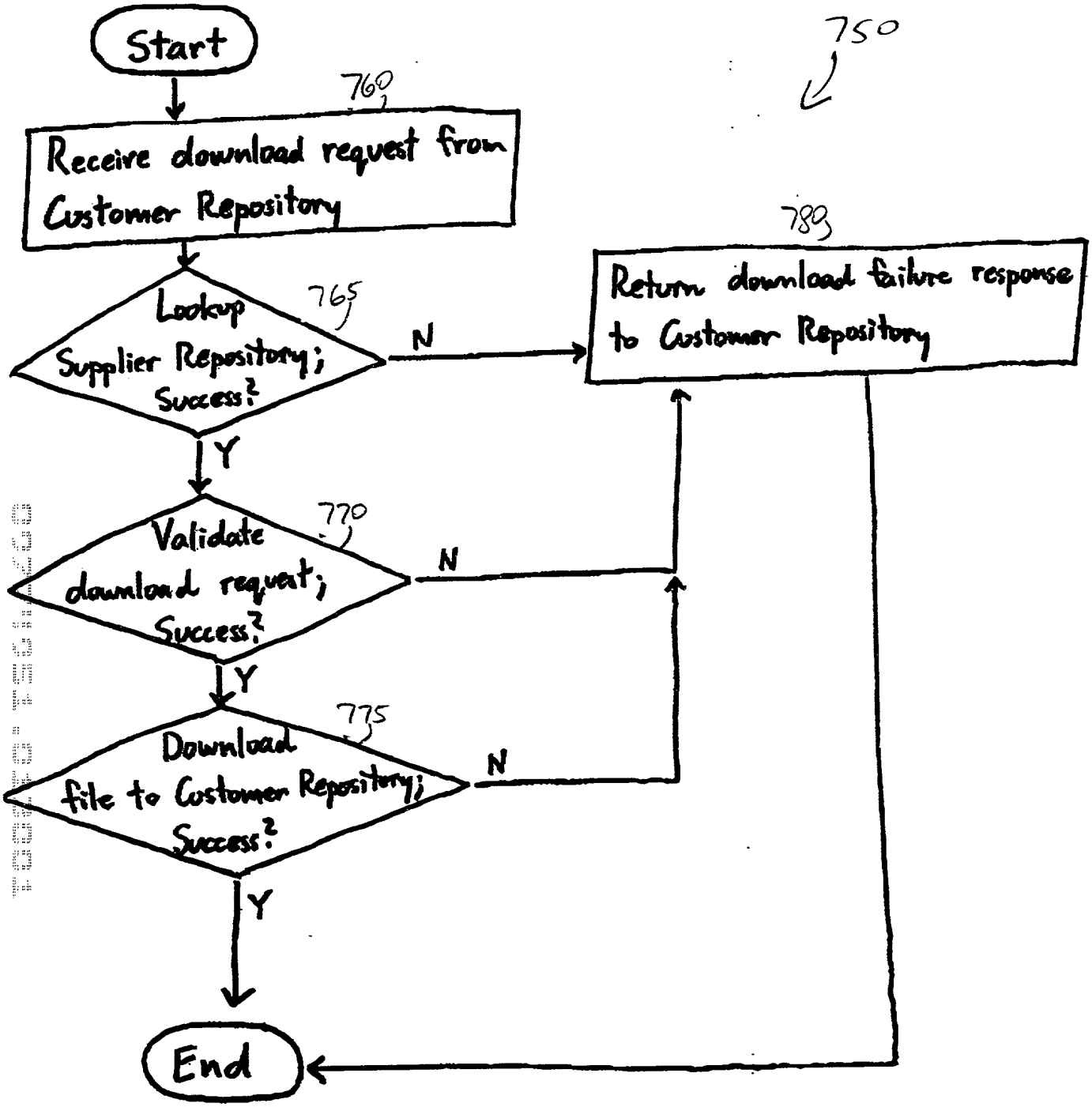
Start
750
760
Receive download request from Customer Repository
765
Lookup Supplier Repository; Success?
N
780
Return download failure response to Customer Repository
Y
770
Validate download request; Success?
N
Y
775
Download file to Customer Repository; Success?
N
Y
End

Fig. 7B